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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,937	12/09/2005	Yasuhiko Kasama	8075-1010	5930
<small>465</small> YOUNG & THOMPSON 209 Madison Street Suite 500 ALEXANDRIA, VA 22314			<small>7590</small> EXAMINER ROGERS, DAVID A	
			<small>03/13/2008</small> ART UNIT 2856	PAPER NUMBER
			MAIL DATE 03/13/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

**Application No.**

10/538,937

**Applicant(s)**

KASAMA ET AL.

**Examiner**

DAVID A. ROGERS

**Art Unit**

2856

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 November 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-11 and 27-41 is/are pending in the application.
- 4a) Of the above claim(s) 4-11, 28 and 31-41 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3, 27, 29 and 30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/888)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Election/Restrictions***

1. Applicant's election without traverse of Group I (claims 1-3, 29, and 30) in their reply filed on 26 November 2007 is acknowledged. Non-elected claims 4-11, 27, 28, 31-41 have been withdrawn by the applicant. Since elected claim 29 depends on claim 27 it has been rejoined for examination purposes.

***Specification***

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

***Claim Rejections - 35 U.S.C. § 112***

3. Claim 9 was withdrawn by the applicant as noted above. The rejection under 35 U.S.C. 112, set forth in the previous office action, is accordingly withdrawn at this time. However, should claim 1 be found to be allowable then the applicant is advised that the rejection will be reinstated.

***Claim Rejections - 35 U.S.C. § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent 4,587,840 to Dobler *et al.* in view of United States Patent 6,094,988 to Aindow.

With reference to figure 3 Dobler *et al.* teaches an end-face sensor comprising a linear body having a single center conductor (reference item 12) where the outer surface of the conductor is provide with an insulator material (reference item 14b). The sensor further comprises a receiving part (reference item 10) for receiving information from a subject; e.g., for receiving pressure from a fluid, and outputting the information received to the conductor. Dobler *et al.* does not teach that the insulating film is a polymer.

Aindow teaches that known sensors having a receiving part (reference item 8) coupled to a conductor (reference item 2) formed of a conductive polymer (see column 4, lines 29-30) surrounded by a polymer insulator (reference item 4) (see column 3 (lines 48-50).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Dobler *et al.* with the teachings of Aindow in order to provide the conductor and the insulator as polymer members as the prior art of Aindow shows that this combination would have been known to one of ordinary skill as an alternative structure for coupling to a receiving part in order to form a sensor.

With regard to claim 27 the linear body of Dobler *et al.* (being formed of the conductor, the insulator, and the base body (reference item 14a) would inherently have flexibility or bendability along a length of its linear body.

6. Claims 2, 3, 29, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dobler *et al.* and Aindow as applied to claim 1 and 27 above, and further in view of United States Patent Application Publication 20030121976 to Ostergard and United States Patent 6,560,967 to Cohen *et al.*

Dobler *et al.* and Aindow teach that it is known to provide a linear member as a mount for a sensor (receiving part). Dobler *et al.* and Aindow do not teach that the receiving part is a light sensor.

Ostergard teaches that photodiodes as light sensors are known. See paragraph 33. Ostergard does not teach a light sensor on a linear member.

Cohen *et al.* teaches that it is known to use pressure sensor or light sensors as alternative sensors. See column 6 (lines 18-25):

Referring again to FIG. 1, the gas turbine engine 22 further includes a sensor 122 that provides a signal indicative of the presence of combustion instability. In the best mode embodiment, the sensor 122 is a pressure sensor that senses the pressure in the combustor, although any other suitable type of sensor may be used, including but not limited to a thermal sensor, a light sensor, or a vibration sensor.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Dobler *et al.* and Aindow with the teachings of Ostergard and Cohen *et al.* in order to provide a linear mount for a light sensor in order to allow the light sensor to be installed in predetermined

areas as Cohen *et al.* clearly suggests that optical sensors are known alternatives for pressure sensors.

### **Conclusion**

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. 1.136(a). A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 C.F.R. 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **DAVID A. ROGERS** whose telephone number is (571)272-2205. The examiner can normally be reached on Monday - Friday (0730 - 1600). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Hezron E. Williams** can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David Rogers/  
Primary Examiner - Art Unit 2856